



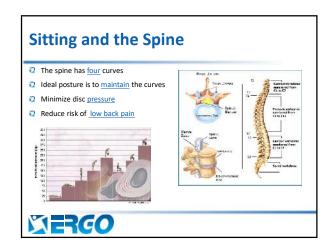








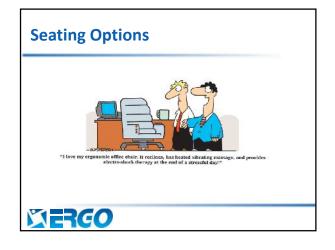
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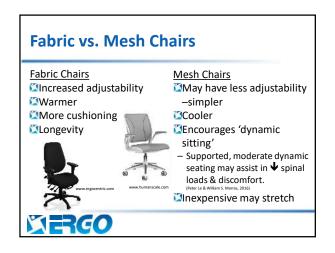












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What About Just Standing? PROS: - ♥ compression on buttocks and thighs - Closer to work tools - More 'neutral' back and neck postures



What About Standing at Work & Caloric Uptake?

Int J Obesity, C. Tudor-Locke et al., 2014

RESULT:

- Standing at work <u>DOES NOT</u> increase caloric uptake compared to sitting
- Evidence that sitting alternatives such as sitting on a stability ball or standing, do <u>NOT</u> generate a meaningful difference energy expenditure.
- You would need to stand for approximately 6-7 hours to burn 1 can of Coke!



Prolonged Standing

- What is considered prolonged standing?
 - Occupational Health & Safety Council of Ontario (OHSCO):
 - Prolonged standing = > 4 hours total per day

Research to support this...

- Low back problems after standing more than 50% of work shift (Waters and Dick, Rehabilitation Nursing, 2015)
- 5 hours of standing induced lower extremity muscle fatigue, even with regular rest breaks (Garcia & Martin, Human Factors, 2016)



Best of Both Worlds: Sit-Stand Stations





Sit-Stand Stations

PROS

- Change posture whenever you choose
- Postural changes BEFORE onset of discomfort
- Preventative & proactive approach





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Guidelines for Standing at Sit Stand Workstations Sitting Duration: 30-60 minutes; <6 hours total/day Standing Duration: No longer than 20 minutes at a time Pain/discomfort shown to start between 30-40 minutes - Want to make change in posture before pain starts - <4 hours total/day - Start with 1 hour/day and slowly increase





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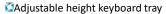
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Sit Stand 'Modify' Options

Add monitor arm

• Cost? Start in the \$100s and more



- Ensure adequate range to elbow height when standing
- · Cost? \$175 and up just for keyboard arm

Scissor lift platform

- 7 heights, up to 9.25"
- Suitable for shorter employees
- Cost: \$300





Preferred Option

- Fully adjustable work surface is optimal
- Coptimizes height for sitting and standing
- Allows frequent and easy height changes
- Continuity between keyboard & monitor height is maintained
- Better for jobs with high volumes of paperwork
- Hydraulic desks often quieter than electric



Height Adjustable Desk Options

- Float by Humanscale
- Various sizes 48-72 inches wide
- Height adjustment range 20 inches
- Support over 130 lbs.
- Easy to adjust counterbalanced
- No leg obstructions
- \$2000



rieight Adjustable Desk Options

- Ikea Bekant
- A few shapes and sizes
- 22-48 inch height range
- \$529



Effectiveness of Sit Stand Workstations

- Novelty wears off
- Conly increases standing for 50-70 min/day
- Not tolerated by most people for longer than 60 minutes
- Many "healthy" employees will not use unless they understand the benefits
- Can not just "implement" without education and follow up and expect "proper & ideal" usage



Improving Use of Sit Stand Workstations

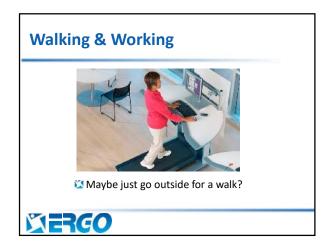
Education

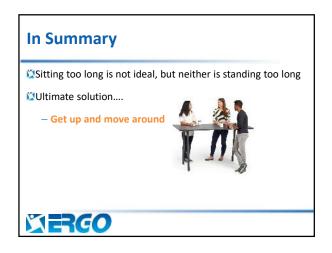
- How to adjust station
- How often to stand & for how long

💆 Follow-up

- Ensure there are no issues with the equipment
- Ensure the worker has not developed pain from standing
- Ongoing training
 - Provide regular reminders
 - Implement tracking system to improve compliance















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